Name: Class:

**Task 1**

Describe the main features and functions of antivirus software.
How does it perform these functions?

Task 2

Evaluate the impact of installing antivirus software on a computer.

Task 3

Use the website <https://howsecureismypassword.net> to test out a variety of passwords.

How does the length and type of characters used affect the strength of a password?

Task 4

Look up the website <https://keepass.info/help/base/keys.html> , or search “password manager” on the Internet to find out more about how a password manager works.

List **four** key features of password manager software.

1.

2.

3.

4.

Task 5

1. The table below contains a number of tems that relate to firewalls. Explain what each of the terms means. The first one has been completed.

|  |  |
| --- | --- |
| **Term** | **Explanation** |
| Software firewall |  |
| Hardware firewall |  |
| Trusted network |  |
| Port blocking |  |
| Stateful packet inspection |  |
| Two-way firewall |  |

2. Individual and home users will often use software firewalls or those in built to routers. Cisco Firepower firewalls are sold to businesses. Use an Internet search to answer the following questions about these firewalls.

(a) How much does the firewall you have chosen cost?

(b) Choose **one** of these routers. What types of features does it support?

(c) Choose **two** of these features and describe what they mean.

|  |  |
| --- | --- |
| * **Throughput speed**
 | * **Malware protection**
 |
| * **Threat inspection / Stateful packet inspection**
 | * **URL filtering**
 |
| * **NGIPS**
 | * **DDoS protection**
 |

Feature 1:

Feature 2: